



DESIGN AND ANALYSIS WITH NUMERICAL METHOD OF GANTRY CRANE MAIN BEAM

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Abstract. Nowadays, mostly in shipbuilding, gantry cranes are needed in many areas. With evolving technology, the sizes of the structures are growing too. Generally, in the construction of these structures gantry cranes are preferred for lifting heavy loads. In this study, a 2x400 ton gantry crane main beam is designed and analysis with numerical method is performed. The working load acting on the main beam is 800 tons. In the analysis of the main beam construction, the self-weight of the main beam, working load and dynamic loads arising due to the crane movements are considered. After analytical calculations, the main beam is modeled as a three dimensional design and the analysis of the construction is performed using finite element method with the help of an analyses program. The analysis is performed for three cases. In the first case, the analysis is performed by considering only self-weight of the main beam. In the second case, the analysis performed under the influence of working load (while two trolleys on the main beam are in various positions); and in the third case, both the working load and the dynamic loads arising due to the crane movements are considered in the analysis. In this study, the stress values obtained from the analysis are examined and it is identified that some regions in the design are needed to be revised and the results obtained from analytical calculations are compared with the results obtained with the finite element method. As a result, using finite element method in the analysis is appropriate and this method provides great convenience in the calculations.

Introduction

Shipping has a very high importance about travelling of people and transportation of commercial goods around the world. In the construction phase of the ships, many massive parts might be necessary for construction and need to be moved. Mostly in shippands, and in many other places gantry cranss are preferred to transport massive parts.

In this paper, a 2x400 ton gantry crane main beam is designed. Analytical stress calculations and analysis with numerical method are made. Afterwards the results of analytical calculations and analysis are compared and discussed.

Design and Model

Cranes are designed in order to the requirements of the working conditions in the enterprise. The predetermined technical datas of the 2x400 ton gantry crane are shown in the Table 1.

Table 1. Technical data of the 2x400 ton gantry crane

Craine type	Glantry orane	
Lifting capacity	2 x 4000000 kg	
Length of the trolley rail	100000 mm	
Useful lifting height	60000 mm	
Material	St 37-2, St 52-3	

On the basis of the above data, it can be said that the usable length of the main beam is 100 meters. The full length of the main beam is 106 meters. The main dimensions and 3-D model of the gantry crane are shown in the Fig. 1.







Fig. 1 Main dimensions and 3-D model of the gantry crane

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Table of Contents Crane Design Theory And Calculations Of Reliability

- 1. Understanding the eBook Crane Design Theory And Calculations Of Reliability
 - The Rise of Digital Reading Crane Design Theory And Calculations Of Reliability
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Crane Design Theory And Calculations Of Reliability
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Crane Design Theory And Calculations Of Reliability
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Crane Design Theory And Calculations Of Reliability
 - Personalized Recommendations
 - Crane Design Theory And Calculations Of Reliability User Reviews and Ratings
 - Crane Design Theory And Calculations Of Reliability and Bestseller Lists
- 5. Accessing Crane Design Theory And Calculations Of Reliability Free and Paid eBooks
 - Crane Design Theory And Calculations Of Reliability Public Domain eBooks
 - Crane Design Theory And Calculations Of Reliability eBook Subscription Services
 - Crane Design Theory And Calculations Of Reliability Budget-Friendly Options
- 6. Navigating Crane Design Theory And Calculations Of Reliability eBook Formats

- o ePub, PDF, MOBI, and More
- Crane Design Theory And Calculations Of Reliability Compatibility with Devices
- Crane Design Theory And Calculations Of Reliability Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Crane Design Theory And Calculations Of Reliability
 - Highlighting and Note-Taking Crane Design Theory And Calculations Of Reliability
 - Interactive Elements Crane Design Theory And Calculations Of Reliability
- 8. Staying Engaged with Crane Design Theory And Calculations Of Reliability
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Crane Design Theory And Calculations Of Reliability
- 9. Balancing eBooks and Physical Books Crane Design Theory And Calculations Of Reliability
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Crane Design Theory And Calculations Of Reliability
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Crane Design Theory And Calculations Of Reliability
 - Setting Reading Goals Crane Design Theory And Calculations Of Reliability
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Crane Design Theory And Calculations Of Reliability
 - Fact-Checking eBook Content of Crane Design Theory And Calculations Of Reliability
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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